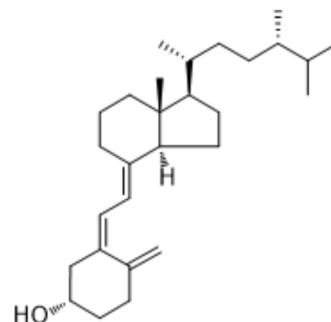


## Vitamin D4

Cat. No.:	HY-75958
CAS No.:	511-28-4
Molecular Formula:	C <sub>28</sub> H <sub>46</sub> O
Molecular Weight:	398.66
Target:	VD/VDR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (62.71 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5084 mL	12.5420 mL	25.0840 mL
	5 mM	0.5017 mL	2.5084 mL	5.0168 mL
	10 mM	0.2508 mL	1.2542 mL	2.5084 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Vitamin D4 (22-Dihydroergocalciferol) is a Vitamin D derived from fungi. The precursor of Vitamin D4 is 22,23-dihydroergosterol<sup>[1]</sup>.

#### In Vitro

Vitamin D deficiency and risk for cardiovascular disease<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

Vitamin D metabolites regulates parathyroid hormone gene transcription in vivo in the rat<sup>[3]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Democritus University of Thrace. FACULTY OF HEALTH SCIENCES MEDICAL SCHOOL. 2021 Jul.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

- [1]. Zittermann A, et al. Vitamin D and Cardiovascular Disease: An Update. *Anticancer Res.* 2019 Sep;39(9):4627-4635.
  - [2]. Silver J, et al. Regulation by vitamin D metabolites of parathyroid hormone gene transcription in vivo in the rat. *J Clin Invest.* 1986 Nov;78(5):1296-301.
  - [3]. Katherine M Phillips, et al. Vitamin D4 in mushrooms. *PLoS One.* 2012;7(8):e40702.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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